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Chronopoulos, A.T.; Johnston, C.M.;
Vehicular Technology, IEEE Transactions on , Volume: 51 , Issue: 3 , May 20
Pages:498 - 510

[Abstract] [PDF Full-Text (443 KB)] IEEE JNL

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2 **A real-time traffic simulation system**
Chronopoulos, A.T.; Johnston, C.M.;
Vehicular Technology, IEEE Transactions on , Volume: 47 , Issue: 1 , Feb. 19
Pages:321 - 331

[Abstract] [PDF Full-Text (232 KB)] IEEE JNL

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3 **A communication latency hiding parallelization of a traffic flow simulation**
Johnston, C.M.; Chronopoulos, A.T.;
Parallel and Distributed Processing, 1999. 13th International and 10th Sympc on Parallel and Distributed Processing, 1999. 1999 IPPS/SPDP. Proceedings , April 1999
Pages:688 - 695

[Abstract] [PDF Full-Text (104 KB)] IEEE CNF

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4 **The parallelization of a highway traffic flow simulation**
Johnston, C.M.; Chronopoulos, A.T.;
Frontiers of Massively Parallel Computation, 1999. Frontiers '99. The Seventh Symposium on the , 21-25 Feb. 1999
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1 **Traffic flow simulation using cellular automata under non-equilibriu environment**
Kozuka, I.; Matsui, Y.; Kanoh, H.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Vol 2 , 7-10 Oct. 2001
Pages:1341 - 1345 vol.2

[Abstract] [PDF Full-Text (291 KB)] **IEEE CNF**

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2 **The analysis of vehicle behavior in the weaving section on the high using a micro-simulator**
Kojima, M.; Kawashima, H.; Sugiura, T.; Ohme, A.;
Vehicle Navigation and Information Systems Conference, 1995. Proceedings. conjunction with the Pacific Rim TransTech Conference. 6th International VNI Ride into the Future' , 30 July-2 Aug. 1995
Pages:292 - 298

[Abstract] [PDF Full-Text (564 KB)] **IEEE CNF**

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3 **A study of drivers' behavior and traffic management**
Katsuki, S.; Hato, E.;
Vehicle Navigation and Information Systems Conference, 1994. Proceedings., 1994 , 31 Aug.-2 Sept. 1994
Pages:255 - 258

[Abstract] [PDF Full-Text (196 KB)] **IEEE CNF**

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4 **Traffic signal control using fuzzy logic**
Qinghui Lin; Kwan, B.W.; Tung, L.J.;
Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and

Simulation'., 1997 IEEE International Conference on , Volume: 2 , 12-15 Oct.

Pages:1644 - 1649 vol.2

[Abstract] [PDF Full-Text (324 KB)] IEEE CNF

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5 **Intelligent scheduling of contraflow control operation using hierarc pattern recognition and constrained optimization**
Dong, Z.; Xue, D.;
Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and Simulation'., 1997 IEEE International Conference on , Volume: 1 , 12-15 Oct.

Pages:135 - 140 vol.1

[Abstract] [PDF Full-Text (496 KB)] IEEE CNF

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6 **A neural-fuzzy system for congestion control in ATM networks**
Shie-Jue Lee; Chun-Liang Hou;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 30 , I 1 , Feb. 2000
Pages:2 - 9

[Abstract] [PDF Full-Text (176 KB)] IEEE JNL

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7 **Predictive control of a hysteretic model-with applications to intellig transportation system**
Jyh-Ching Juang; Yi-Hsien Chiang;
Intelligent Transportation Systems, 2003. Proceedings. 2003 IEEE , Volume: 1 , 12-15 Oct. 2003
Pages:814 - 818 vol.1

[Abstract] [PDF Full-Text (332 KB)] IEEE CNF

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8 **Congestion evaluation from traffic flow information based on fuzzy**
Jia Lu; Li Cao;
Intelligent Transportation Systems, 2003. Proceedings. 2003 IEEE , Volume: 1 , 12-15 Oct. 2003
Pages:50 - 53 vol.1

[Abstract] [PDF Full-Text (287 KB)] IEEE CNF

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9 **A neural-fuzzy system for rate-based control in ATM networks**
Chun-Liang Hou; Shie-Jue Lee;
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings IEEE International Conference on , Volume: 1 , 12-15 Oct. 1999
Pages:443 - 448 vol.1

[Abstract] [PDF Full-Text (404 KB)] IEEE CNF

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10 **Roadway traffic controller design for automated highway systems**
Chien, C.C.; Zhang, Y.; Stotsky, A.; Ioannou, P.;
Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vc 3 , 14-16 Dec. 1994

Pages:2425 - 2430 vol.3

[Abstract] [PDF Full-Text (460 KB)] IEEE CNF

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11 **Dynamic traffic simulation to evaluate vehicle navigation systems**
Fujii, S.; Iida, Y.; Uchida, T.;
Vehicle Navigation and Information Systems Conference, 1994. Proceedings., 1994 , 31 Aug.-2 Sept. 1994
Pages:239 - 244

[Abstract] [PDF Full-Text (428 KB)] IEEE CNF

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Randall P. Sadowski

December 1991 **Proceedings of the 23rd conference on Winter simulation**

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2 Simulation model verification and validation

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7 Quantum computing: Using HDLs for describing quantum circuits: a framework for efficient quantum algorithm simulation

Mihai Udrescu, Lucian Prodan, Mircea VI□dutiu

April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: pdf(3.90 MB) Additional Information: full citation, abstract, references, index terms

The quantum algorithms could efficiently solve problems having exponential classical solutions [8]. The circuit model is considered as the most feasible implementation of the quantum algorithms [17]. This paper tries to find common ground between classical circuit design techniques and quantum computation, by identifying quantum circuit specification and simulation tools under the form of Hardware Description Languages (HDLs). The HDL-based simulation approach could reduce the complexity of quan ...

Keywords: bubble logic, entanglement, hardware description languages, quantum algorithms, quantum circuits, simulation, views

8 Structured model specification with a supportive simulation architecture

Edward R. Comer

March 1982 **Proceedings of the fifteenth annual simulation symposium**

Full text available: pdf(818.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent emphasis in structured software development has resulted in a greater awareness of an orderly methodology for problem solving. This disciplined approach is adapted for model specification. Through the use of structured software techniques and a Model Specification Language (MSL) a complex distributed computer system model is derived and documented. The model specification is supported by a discrete event simulation architecture which directly reflects the model structure.

9 A methodology for simulating computer systems

Peter L. Haigh

March 1982 **Proceedings of the fifteenth annual simulation symposium**

Full text available: pdf(1.86 MB) Additional Information: full citation, abstract, references, index terms

Simulation languages, while providing the modeler with the essential tools for model development, do not provide well defined philosophies for modeling specific classes of systems. Although some languages strongly suggest a particular modeling approach, deriving from a particular world view, a methodology must be developed by the practitioner. A methodology for developing simulation models of computer systems is discussed. In all computer systems there are universal processes which may be b ...

10 Application of integration algorithms in a parallel processing environment for the simulation of jet engines

Susan M. Krosel, Edward J. Milner

March 1982 **Proceedings of the fifteenth annual simulation symposium**

Full text available: pdf(951.04 KB) Additional Information: full citation, abstract, references, citings, index terms

The development of digital dynamic simulations requires careful selection of an appropriate

integration algorithm. This paper illustrates the application of predictor-corrector integration algorithms developed for the digital parallel processing environment. The algorithms are implemented and evaluated through the use of a software simulator which provides an approximate representation of the parallel processing hardware. Test cases which focus on the use of the algorithms are presented and ...

11 The design of a multi-microprocessor based simulation computer - I
John Craig Comfort
March 1982 **Proceedings of the fifteenth annual simulation symposium**

Full text available: pdf(405.39 KB) Additional Information: full citation, abstract, references, citings, index terms

A discrete event simulation computer based on a network of microprocessors is being developed at Florida International University. This paper contains a description of the simulation models used thus far in the development process and results obtained from them. A system using a PDP-11 as the principal processor and a Motorola M68000 as an event set processor has been implemented. Results from the performance of this system are presented, and plans for further development are discussed.

12 Simulation languages and database theory: some considerations from the entity-relationship model
Robert S. Roberts
December 1991 **Proceedings of the 23rd conference on Winter simulation**

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13 Incorporating simulation into a design environment
Christopher Landauer
December 1991 **Proceedings of the 23rd conference on Winter simulation**

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14 The separation and explicit declaration of model control structures in support of object-oriented simulation
Michael K. Ogle, Terrence G. Beaumariage, Chell A. Roberts
December 1991 **Proceedings of the 23rd conference on Winter simulation**

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15 A unified framework for visual interactive simulation
Michael Rooks
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16 Integrated interfaces for decision-support with simulation
Philip R. Cohen
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17 A replication approach to interval estimation in simulation
M. Murat Köksalan, Nail Basöz
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Full text available: pdf(593.49 KB) Additional Information: full citation, references, index terms

18 Comparison of global search methods for design optimization using simulation
B. Stuckman, G. Evans, M. Mollaghasemi
December 1991 **Proceedings of the 23rd conference on Winter simulation**
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19 SERVO: simulation experiments with random-vector output
Bruce W. Schmeiser, Mark D. Scott
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Full text available: pdf(886.21 KB) Additional Information: full citation, references, citings, index terms

20 Solution to the indexing problem of frequency domain simulation experiments
Mousumi Mitra, Stephen K. Park
December 1991 **Proceedings of the 23rd conference on Winter simulation**
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21 Enterprise traffic with a differentiated service mechanism
Chyan Yang, Chen-Hua Fu, Yueh-Heng Tu
March 2001 **International Journal of Network Management**, Volume 11 Issue 2
Full text available: pdf(301.17 KB) Additional Information: full citation, abstract, references, index terms

As an enterprise grows, its network bandwidth requirement also increases dramatically. Network performance of an enterprise will impact its operational performance. How do we efficiently manage an enterprise network's resources in an E‐business era? This research proposes a differentiated service mechanism to manage traffic flows in an enterprise. This mechanism would enhance the performance of an enterprise network and help an enterprise efficiently transmits important in ...

22 A simulation study of traffic control procedures at highway work zones
Nader Afshar, Farhad Azadivar
December 1992 **Proceedings of the 24th conference on Winter simulation**
Full text available: pdf(615.68 KB) Additional Information: full citation, references, index terms

23 The role of interactive graphics when applying traffic simulation models
Edward B. Lieberman, Barbara Andrews
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(969.11 KB) Additional Information: full citation, references, citings, index terms

24 Use of multimedia to augment simulation
Peter Aiken, Frank Armour, Peggy Brouse, Ann Fields, Mandy Hassanpour, Jianhong Liang, James D. Palmer
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

25 Telecommunications: Fluid simulation: discrete event fluid modeling of TCP
David M. Nicol
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(151.17 KB) Additional Information: full citation, abstract, references, index terms

The bulk of Internet traffic is carried using variants of the TCP protocol. A realistic simulation-based performance study of any distributed application run over the Internet (e.g. reliable multicast) must therefore account for the impact that TCP background traffic has upon application behavior. Because TCP flows are shaped by other TCP flows, it is difficult to model TCP and its impact on other traffic other than by explicitly simulating it. This adds a significant computational burden to the ...

26 Simulation analysis of two adjacent traffic signals

Kiyoshi Yamada, Tenny N. Lam
December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available: pdf(836.26 KB) Additional Information: full citation, abstract

The traffic delay and signal timing offset of adjacent signalized intersections are studied by stochastic computer simulation. The emphasis is on the effect of turning movements on traffic signal coordination. Coordination synchronizes the flow of traffic through a sequence of signals in order to minimize delays and stops. It's application is traditionally restricted to major thoroughfares where turning movements from side streets are insignificant. This study attempts to show that there ar ...

27 Credit-based fair queueing (CBFQ): a simple service-scheduling algorithm for packet-switched networks

Brahim Bensaou, Danny H. K. Tsang, King Tung Chan
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Full text available: pdf(282.71 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a simple rate-based scheduling algorithm for packet-switched networks. Using a set of counters to keep track of the credits accumulated by each traffic flow, the bandwidth share allocated to each flow, and the size of the head-of-line (HOL) packets of the different flows, the algorithm decides which flow to serve next. Our proposed algorithm requires on average a smaller complexity than the most interesting alternative ones while guaranteeing comparable fairness, delay, and d ...

Keywords: Fair queueing, packet scheduling, quality of service, traffic control

28 Application of simulation modeling to emergency population evacuation

Kambiz Farahmand
December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available: pdf(749.27 KB) Additional Information: full citation, references, index terms

29 Computer simulation of City traffic

April 1962 **Communications of the ACM**, Volume 5 Issue 4

Full text available: pdf(512.08 KB) Additional Information: full citation, references

30 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)

Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation**

Full text available: pdf(1.45 MB) Additional Information: full citation, references, index terms

31 The performance analysis workstation: an interactive animated simulation package for queueing networks
B. Melamed
November 1999 **Proceedings of 1986 fall joint computer conference on Fall joint computer conference**
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32 Smooth is better than sharp: a random mobility model for simulation of wireless networks
Christian Bettstetter
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**
Full text available: pdf(746.82 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an enhanced random mobility model for simulation-based studies of wireless networks. Our approach makes the movement trace of individual mobile stations more realistic than common approaches for random movement.

After giving a survey of mobility models found in the literature, we give a detailed mathematical formulation of our model and outline its advantages. The movement concept is based on random processes for speed and direction control in which the new values ...

Keywords: border effects, mobility modeling, modeling and simulation, random direction model, random waypoint model, user movement, wireless and mobile communication networks

33 GPSS simulation for airport capacity and facilities expansion analysis
Charles A. Willis
December 1969 **Proceedings of the third conference on Applications of simulation**
Full text available: pdf(611.59 KB) Additional Information: full citation, abstract, citings, index terms

GPSS simulation of a major air carrier airport to provide an analysis of capacity of the runway and taxiway system and determination of delays encountered at peak levels of traffic activity. Alternate airport expansion schemes were developed and examined through the simulation technique and a concept for expanding operational capacity was selected. All essential elements and functions of the airport were contained in the model.

34 Transportation, logistics, and distribution: Airline and airport applications: simulation optimization of airline delay with constraints
David W. Hutchison, Stacy D. Hill
December 2001 **Proceedings of the 33nd conference on Winter simulation**
Full text available: pdf(215.57 KB) Additional Information: full citation, abstract, references, index terms

Air traffic delay is a growing and expensive problem. We investigated ways to reduce the cost and magnitude of such delays by trading gate delays against more expensive air delays. Air management and planning at this level can be facilitated by simulation, especially for strategies that alter controls on the system. We used the SIMMOD air traffic simulation to model the system. The objective was to determine a set of control measures that achieve the best system performance subject to restrictio ...

35 Enhanced THOREAU traffic simulation for intelligent transportation systems (ITS)
Paul T. R. Wang, Richard A. Glassco
December 1995 **Proceedings of the 27th conference on Winter simulation**
Full text available: pdf(545.08 KB) Additional Information: full citation, references, index terms

36 Parallel shared-memory simulator performance for large ATM networks
Brian Unger, Zhonge Xiao, John Cleary, Jya-Jang Tsai, Carey Williamson
October 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 4
Full text available: pdf(223.11 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A performance comparison between an optimistic and a conservative parallel simulation kernel is presented. Performance of the parallel kernels is also compared to a central-event-list sequential kernel. A spectrum of ATM network and traffic scenarios representative of those used by ATM networking researchers are used for the comparison. Experiments are conducted with a cell-level ATM network simulator and an 18-processor SGI PowerChallenge shared-memory multiprocessor. The resul ...

Keywords: ATM network modeling, conservative synchronization, optimistic synchronization, parallel discrete event simulation, time warp

37 Traffic signal timing at isolated intersections using simulation optimization
Anthony A. Saka, G. Anandalingam, Nicholas J. Garber
December 1986 **Proceedings of the 18th conference on Winter simulation**
Full text available: pdf(630.12 KB) Additional Information: full citation, abstract, references, citings, index terms

Two innovative stochastic traffic signal optimization techniques for isolated intersections are discussed. The objective is to determine the optimum cycle and green phase lengths for signalized isolated traffic intersections. Determination of optimum cycle and green phase lengths is based on minimization of the total average delay at the intersection for a given period of observation. Traffic signal timing is formulated as a stochastic inventory problem, which is then solved by a combinatio ...

38 Evaluation of an adaptive traffic control technique with underlying system changes
Richard H. Smith, Daniel C. Chin
December 1995 **Proceedings of the 27th conference on Winter simulation**
Full text available: pdf(701.30 KB) Additional Information: full citation, references, index terms

39 Transportation, logistics, and distribution: Simulation of a night taxi-bus service for the historical center of Rome
Thomas Schulze, Marco Lemessi, Francesco Filippi
December 2001 **Proceedings of the 33nd conference on Winter simulation**
Full text available: pdf(481.43 KB) Additional Information: full citation, abstract, references, index terms

The Municipality of Rome plans to introduce a taxi-bus system as a night service. A micro-simulation model was developed to estimate the needed information. Two major topics regarding this model are presented. First, the iteration process for input parameters is described. The number of potential customers is determined by means of an external modal split model. Two input parameters (frequency of trips and travel times) for the external

model are estimated by the micro-simulation model. An itera ...

40 A computer simulation approach to elevator system design

Alton J. Penz

June 1971 **Proceedings of the June 1971 design automation workshop on Design automation**

Full text available: pdf(899.23 KB) Additional Information: full citation, abstract, references, index terms

Computer simulation methods enable the architech to accurately analyze the performance of specified elevator systems, thus facilitating more careful evaluation of alternative system designs than previously achievable. Simulation improves analysis because it involves replication of real-time elevator performance and does not rely on the rules of thumb and statistical assumptions incorporated into traditional analytical methods. The development of a computer simulation program for elevators r ...

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